

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-8. (Canceled)

9. (Currently Amended) A vehicle auxiliary electric-power-supplying system comprising:

an electric power inverter for converting ~~[[a]] first type of~~ dc power received through an overhead wire to ~~[[a]] second type of~~ dc power, and supplying the second type of dc power to a dc load;

an electric power supplier for converting the first ~~type of~~ dc power received through the overhead wire to ~~[[a]] third type of~~ dc power;

a power-outputting unit, connected to both the electric power inverter and the electric power supplier, for outputting the higher dc power of either the second ~~type of~~ dc power or the third ~~type of~~ dc power; and

a controller for receiving power from the power-outputting unit, and controlling the electric power inverter.

10. (Currently Amended) A vehicle auxiliary electric-power-supplying system as recited in claim 9, wherein the electric power inverter converts the first ~~type of~~ dc power into a ~~fourth type of~~ ac power, and supplies the ~~fourth type of~~ ac power to an ac load.

11. (Currently Amended) A vehicle auxiliary electric-power-supplying system as recited in claim 9, wherein to the controller the third ~~type of~~ dc power is supplied through the power-outputting unit when the system starts to operate, and the second ~~type of~~ dc power is supplied through the power-outputting unit after the second ~~type of~~ dc power has been outputted from the electric power inverter.

12. (Currently Amended) A vehicle auxiliary electric-power-supplying system as recited in claim 11, wherein the electric power inverter converts the first ~~type of~~ dc power into a ~~fourth type of~~ ac power, and supplies the ~~fourth type of~~ ac power to an ac load.

13. (Currently Amended) A vehicle auxiliary electric-power-supplying system as recited in claim 11, wherein the third type of dc power is supplied to the controller through the power-outputting unit if the voltage of the second ~~type of~~ dc power being supplied becomes lower than the voltage of the third ~~type of~~ dc power being supplied.

14. (Currently Amended) A vehicle auxiliary electric-power-supplying system as recited in claim 13, wherein the electric power inverter converts the first ~~type of~~ dc power into a ~~fourth type of~~ ac power, and supplies the ~~fourth type of~~ ac power to an ac load.

15. (Currently Amended) A vehicle auxiliary electric-power-supplying system as recited in claim 13, wherein the power-outputting unit is constituted of a

butt-jointed diode composed of a first diode to which the second ~~type of~~ dc power is supplied and a second diode to which the third ~~type of~~ dc power is supplied, so as to supply output of either power to the controller.

16. (Currently Amended) A vehicle auxiliary electric-power-supplying system as recited in claim 15, wherein the electric power inverter converts the first ~~type of~~ dc power into a ~~fourth type of~~ ac power, and supplies the ~~fourth type of~~ ac power to an ac load.

17. (Currently Amended) A vehicle auxiliary electric-power-supplying system as recited in claim 15, further comprising:

a first protector, connected between the overhead wire and the electric power inverter, for protecting the electric power inverter against excessive current in the first ~~type of~~ dc power supplied through the overhead wire.

18. (Currently Amended) A vehicle auxiliary electric-power-supplying system as recited in claim 17, wherein the electric power inverter converts the first ~~type of~~ dc power into a ~~fourth type of~~ ac power, and supplies the ~~fourth type of~~ ac power to an ac load.

19. (Currently Amended) A vehicle auxiliary electric-power-supplying system as recited in claim 17, wherein the first ~~type of~~ dc power is supplied to the electric power supplier through the first protector.

20. (Currently Amended) A vehicle auxiliary electric-power-supplying system as recited in claim 19, wherein the electric power inverter converts the first ~~type of dc power into a fourth type of ac power~~, and supplies the ~~fourth type of ac power~~ to an ac load.

21. (Currently Amended) A vehicle auxiliary electric-power-supplying system as recited in claim 19, wherein
the electric power inverter comprises a second protector for protecting, according to control from the controller, the inverter internally against excessive currents in the first ~~type of dc power~~.

22. (Currently Amended) A vehicle auxiliary electric-power-supplying system as recited in claim 21, wherein the electric power inverter converts the first ~~type of dc power into a fourth type of ac power~~, and supplies the ~~fourth type of ac power~~ to an ac load.